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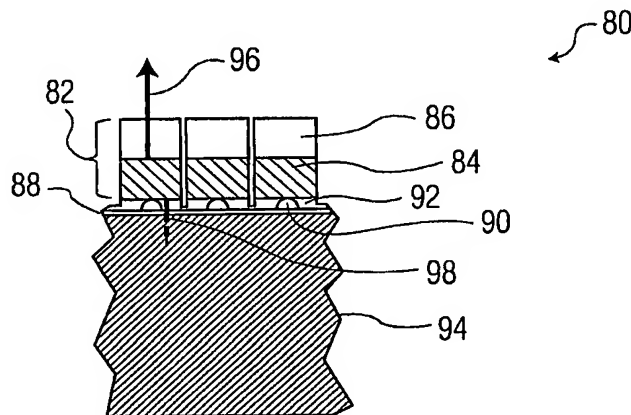
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[Continued on next page]

(54) Title: IMPLEMENTING IC MOUNTED SENSOR WITH HIGH ATTENUATION BACKING



(57) Abstract: According to an embodiment of the present disclosure, an ultrasound transducer probe (80) includes an attenuation backing substrate (94), an integrated circuit (88), and an array of piezoelectric elements (84). The integrated circuit (88) couples to the attenuation backing substrate (94), the integrated circuit (88) being translucent to acoustic waves. The array of piezoelectric elements (84) couples to the integrated circuit (88); the array of piezoelectric elements (84) having an acoustic matching layer disposed on a first surface of the array thereof.



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